

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HC-5 (Rev. 5/93)

CONTRACT CHANGE ORDER NO. 37 SUPPL. NO. 3
ROAD 04-SF-80-13.2, 13.9 SHEET 2 OF SHEETS
FEDERAL NO.(S) CONTRACT NO.: 04-0120F4

Revise Special Provisions Section 10-1.71 "CLEAN AND PAINT CABLE SYSTEM," subsection "MATERIALS," paragraph 9 as follows:

The primer for the galvanized cable system components shall conform to the following physical requirements:

Property	Test	Requirement
Weight of Solids	ASTM Designation: D2369	48% \pm 2%
Specific Gravity		1.2 \pm 0.03
Volume of Solids	ASTM Designation: D2697	45.4% 36% \pm 2%
Elasticity		200% Elongation
Water Resistance		100%
Alkali Resistance		Fair
Salt Spray Resistance		100%
Water Vapor Transmission	ASTM Designation: E96	15g H ₂ O/m ² in 24 hours
Chemical Resistance	10% Acid solution	Fair

The primer for the non-galvanized cable system components and the intermediate coats of the cable paint system shall conform to the following physical requirements:

Property	Test	Requirement
Weight of Solids	ASTM Designation: D2369	67% 62% \pm 2% 3%
Specific Gravity		1.26 \pm 0.02
Volume of Solids	ASTM Designation: D2697	57% 55% \pm 2% 3%
Elasticity	CSTB No. 15.381	200% Elongation
Water Resistance		12 mo. Immersion, no change
Alkali Resistance		No damage from Na(OH) at pH = 14
Salt Spray Resistance	CSTB No. 15.381	100%
Water Vapor Transmission	ASTM Designation: E96	5.5g H ₂ O/m ² in 24 hours
Chemical Resistance	25% mineral acid solution	Excellent
UV Ray Resistance		100% against outdoor exposure
Shore A Hardness		70
Aging and Adhesion		Unaffected after 8 hours, 60°C to -20°C with rain, frost, UV light and humidity
Sulfur Dioxide Resistance		100% resistance
Ozone Resistance		No cracking or embrittlement when subjected to 1 PPM ozone for 30 days
Hot water immersion		No effect after 1000 hours in 38°C water
Impact Resistance	DIN 51155	90 N
Tensile Adhesion	CSTB (France)	47.5 An/cm ²
Sand Blasting Resistance	DIN 51155	Unaffected at 20,000 shots

